OIT/TRIS
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OIT 7162-87

23 MAR 1937

MEMORANDUM FOR: Director of Training and Education

VIA: Deputy Director for Administration

FROM: Edward J. Maloney
Director of Information Technology/DA

SUBJECT: Request for Training in Artificial Intelligence

REFERENCE: A. Note for D/OIT fm DDA, dtd Aug 86,
Subj: Training at Carnegie-Mellon University

B. Ltr for OTE fm Carnegie-Mellon University, dtd 16 Dec 86
Subj: Acceptance for Training in Artificial Intelligence

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1. The Office of Information Technology requests that the Agency sponsor
STAT currently the Chief of OIT's Artificial Intelligence Staff, Management Information Systems Group, as a special student for a one year's training at Carnegie-Mellon University (CMU) in the field of artificial intelligence. OIT has committed the necessary funds for tuition, per diem, travel, books and related items.

2. A special program of study in the area of artificial intelligence has
STAT been arranged for in accordance with the guidance contained in Reference A. This arrangement was proposed to CMU officials during a recent
STAT visit to the campus in coordination with f the Office of Training and Education (OTE).

STAT 3. has been formally accepted by CMU into the special program
STAT of study. This is reflected in Reference B. It is felt that by participating in this program, OIT will be making an investment in the future that is likely to provide the Agency with significant benefits over the years ahead.

STAT 4. intends to proceed with his managerial career at the Agency and will tailor his program of study so that it most effectively broadens his background in the field of artificial intelligence and related information

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technologies.

has consistently exceeded the performance standard in a variety of jobs in OIT since entering on duty in January 1981. As requested by Reference A, he is capable of representing the Agency at CMU both technically and politically.

Edward J. Maloney

Attachments:
A. Reference A
B. Reference B
C. Form 136

CONCUR:

Deputy Director for Administration

24 May 87
Date

APPROVED:

Director of Training and Education

2 June
Date

ROUTING AND RECORD SHEET

SUBJECT: (Optional)

STAT FROM: William F. Donnelly
Deputy Director for Administration

EXTENSION | NO.

DATE

TO: (Officer designation, room number, and building)	DATE RECEIVED	DATE FORWARDED	OFFICER'S INITIALS	COMMENTS (Number each comment to show from whom to whom. Draw a line across column after each comment.)
1. Director of Information Technology 2D00 Hqs Bldg.				Ed: Please note the attached clipping from the New York Times. I have been stating for some period of time that the Agency should have someone at Carnegie-Mellon University who has an ADP background. Now I believe it even more. Please get together and arrange for an appropriate officer to go to Carnegie-Mellon for a year's training in the field of artificial intelligence or arrange to place an officer at Carnegie-Mellon for two years as a "Professor" in Residence. I see this officer as a GS-14 to SIS-02; it should be an individual who we believe can represent us both technically and politically. We should view this assignment as an investment in the future--so we are looking for someone who has up to ten years more to work for the Agency. ✔ Let's work at this seriously and aggressively.
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[redacted]
William F. Donnelly

cc: D/OTE

Attachment:
New York Times Article
dated 14 August 1986

FORM 1-70 610 USE PREVIOUS EDITIONS

COMPANY NEWS

I.B.M. Enlists Software Aid

3-Year Study At University

By DAVID E. SANGER

Special to The New York Times

PHILADELPHIA, Aug. 13 — The International Business Machines Corporation today announced a three-year multimillion-dollar project in artificial intelligence with Carnegie-Mellon University, as part of what the company called "a major new I.B.M. initiative" in advanced software.

Under the terms of the agreement, I.B.M. will provide equipment and financing for Carnegie-Mellon researchers developing "expert systems" that attempt to simulate human reasoning and draw conclusions, along with longer-range work in speech recognition and robotics.

While I.B.M. said it would not have exclusive access to the results of the research, company executives attending the annual meeting of the American Association for Artificial Intelligence here said they expected those results would become part of I.B.M.'s future software products.

The move appears to be part of a major shift within I.B.M., which has traditionally been weak in applications software, programs that perform specific tasks for computer users. Artifical intelligence, a set of programming techniques that generally make computer systems easier to use and capable of performing many jobs without human intervention, are considered essential to that effort. They also use an extraordinary amount of computing power and memory, meaning the prospect of additional hardware sales.

'Something of an Awakening'

"There is something of an awakening under way at I.B.M.," said Raj Reddy, head of Carnegie-Mellon's robotics institute and a leading authority in artificial intelligence. "Four or five years ago, when you mentioned artificial intelligence, I.B.M. shrugged its shoulders."

I.B.M. executives here said that within the last year the company had created an artificial-intelligence project office that reports directly to I.B.M.'s management committee, with unusually broad responsibility to integrate new techniques in I.B.M. products. In coming months, the company is expected to bring out its first commercially available expert systems, primarily programs designed for banks, insurance companies and manufacturers.

"Strategically, this is now a very high priority for us," said Herbert Schorr, who is directing I.B.M.'s artificial-intelligence initiative. "It should enable us to attract a new set of users — like loan officers or insurance underwriters — who can retrieve facts off their computers, but get little analysis or instruction about how to apply rules."

Many artificial-intelligence products are "development tools," or programs that help computer designers prepare other programs; the use of expert systems has primarily been limited to medicine and manufacturing, although an increasing variety of such systems is coming onto the market.

Much of the most promising technology is still in university laboratories, notably at Carnegie-Mellon, the Massachusetts' Institute of Technology and Stanford University. Thus, companies are forming alliances with those institutions, especially because it is relatively inexpensive to transport software from the laboratory to the marketplace.

Under the agreement announced today, I.B.M. will provide Carnegie-Mellon with about $5.5 million in computer equipment and will negotiate contracts for individual studies in artificial intelligence. The equipment is primarily the PC/RT, an engineeering and scientific computer introduced earlier this year that I.B.M. believes particularly well suited for artificial-intelligence applications.

Two years ago I.B.M. was stung by charges that a pact with Carnegie-Mellon to help develop the PC/RT bound the university to secrecy agreements that many academics called unethical. In today's announcement, it was careful to say the project would be "open research."

"Carnegie-Mellon will own the software it develops and is free to publish whatever it wants," said John C. Daily, who heads the company's Academic Information Systems unit. "We will share in the results, but we will not have exclusive access."

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